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	Application No.	Applicant(s)	7.10
Notice of Allowability	09/671,638	AL-DHAHIR, NAOFAL	
	Examiner	Art Unit	
	Dung X Nguyen	2631	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-INOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.5	IS (OR REMAINS) CLOSED in 85) or other appropriate community RIGHTS. This application is 8 313 and MPEP 1308.	n this application. If not included unication will be mailed in due cours	
1. Mail This communication is responsive to <u>amendment filed c</u>	on 29 July 2004.		
2. The allowed claim(s) is/are 2, 3, 8, 9, and 13 - 20, reore		d 15 - 18, renumbered as 1 - 12, re	spectively .
3. The drawings filed on 28 September 2002 are accepted	by the Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents he</li> <li>2. Certified copies of the priority documents he</li> </ul>	ave been received.		
3. ☐ Copies of the certified copies of the priority			om the
International Bureau (PCT Rule 17.2(a)).		an and national otago application in	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which of	NMENT of this application.  bmitted. Note the attached EXA	AMINER'S AMENDMENT or NOTIC	
		deciaration is deficient.	
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") n		. / DTO 040) -#b-d	
<ul> <li>(a) ☐ including changes required by the Notice of Draftsp</li> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> </ul>		V ( P1O-948) aπacned	
(b) ☐ including changes required by the attached Examin Paper No./Mail Date		in the Office action of	
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	R 1.84(c)) should be written on the in the header according to 37 CF	ne drawings in the front (not the back R 1.121(d).	) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN</li> </ol>	POSIT OF BIOLOGICAL MATE NT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note to DLOGICAL MATERIAL.	he
Attachment(s)	5 <b></b>		
1. Notice of References Cited (PTO-892)		formal Patent Application (PTO-152	)
<ol> <li>Notice of Draftperson's Patent Drawing Review (PTO-94)</li> <li>Information Disclosure Statements (PTO-1449 or PTO/S)</li> </ol>	Paper No./	ummary (PTO-413), Mail Date Amendment/Comment	
Paper No./Mail Date			
<ol> <li>Examiner's Comment Regarding Requirement for Depos of Biological Material</li> </ol>	9. Other	Statement of Reasons for Allowanc -·	e
		August 10, 2004	

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## Response to Arguments

1. Applicant's arguments filed on July 29, 2004 have been fully considered and subsequently found persuasive. Claims 1, 4-7, and 10-12 have been withdrawn.

## Allowable Subject Matter

2. Claims 2, 3, 8, 9, and 13 - 20 are allowed, reordered as 2, 3, 13, 14, 19, 20, 8, 9, and 15 - 18, renumbered as 1 - 12, respectively. The following is an examiner's statement of reasons for allowance:

Regarding to the claimed invention, the prior art of record fails to show or render obvious of a method and its corresponding apparatus for improving operation of a receiver by canceling the spatio-temporal interference effects caused by the channel memory with a set of FIR filters in both feedforward and feedback filters. The coefficients of these FIR filters can be fashioned to provide a variety of controls.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Harman (US patent # 6,442,198 B1) discloses a method and its corresponding apparatus for stabilizing a decision feedback equalizer.

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Endres et al. (US patent # 6,337,878 B1) discloses an adaptive equalizer with decision

directed constant modulus algorithm.

Camp et al. (US patent # 5,592,517) discloses cascade comb integrator interpolated

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filters.

Tasujimoto (US patent # 5,398,259) discloses a decision feedback equalizer for canceling

CW interference.

Amrany et al. (US patent # 5,371,762) discloses technique utilizing signal storing devices

for canceling signal dispersion.

**Contact Information** 

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dung X. Nguyen whose telephone number is (703) 305-4892.

The examiner can normally be reached on Monday through Friday from 5:30 AM to 17:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mr. Ghayour Mohammad H. can be reached on (703) 306-3034. The fax phone

numbers for this group is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 305-3800.

DXN

August 10, 2004

MOHAMMED GHAYOUR SUPERVISORY PATENT EXAMINER